

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
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PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year) 26 NOVEMBER 2004 (26.11.2004)

Applicant's or agent's file reference
PCT2004AJW

FOR FURTHER ACTION

See paragraph 2 below

International application No.
PCT/KR2004/001565

International filing date (day/month/year)
26 JUNE 2004 (26.06.2004)

Priority date(day/month/year)
26 JUNE 2003 (26.06.2003)

International Patent Classification (IPC) or both national classification and IPC

IPC7 A61C 13/20

Applicant

AHN, Jae-Wan

1. This opinion contains indications relating to the following items:

- Box No. I Basis of the opinion
 Box No. II Priority
 Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 Box No. IV Lack of unity of invention
 Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 Box No. VI Certain documents cited
 Box No. VII Certain defects in the international application
 Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



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Express Mail Label No.
EV 359740583 US

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Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- a sequence listing
 table(s) related to the sequence listing

b. format of material

- in written format
 in computer readable form

c. time of filing/furnishing

- contained in the international application as filed.
 filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-20	YES
	Claims		NO
Inventive step (IS)	Claims	1-20	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO

2. Citations and explanations :

Reference is made to the following documents:

- D1) JP 09-164152 A
- D2) JP 2001-37782 A
- D3) JP 2000-350738 A
- D4) JP 07-236646 A

I-Novelty:

Claim 1 of the present invention is concerned with electric wax chisel comprising main body with wax storage tank, tip, duct linking wax storage tank and tip, and heating member. In particular, main body is formed of a plurality of separable chambers. Although D1 cited in the international search report discloses wax building-up device for manufacturing dental mold, the element of main body characterized by a plurality of separable chambers is not described in D1. And also, D2-D4 cited in the international search report do not refer to duct linking wax storage tank and tip. Accordingly, the subject matter of claim 1 seems to be novel.(PCT Article 33(2)). Claims 2-9 also comply with PCT Article 33(2) as they are dependent claims. Another independent claims 10 and 17 must be novel, because they are electric wax chisels comprising component of claim 1 having novelty. Claims 11-16 and 18-20 also comply with PCT Article 33(2) as they are dependent claims on claims 10 and 17, respectively.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of:

V.

II-Inventive step:

1) Concerning claim 1 (Independent claim)

The references D1-D4 do not disclose electric wax chisel comprising main body formed of a plurality of separable chambers. In addition, it is not obvious from the references D1-D4 by the skilled person in the art. Consequently, there is no suggestion in any of the references, either alone or in combination, which would lead to the solution posed by the present invention. Therefore, claim 1 of the present invention meets the criteria set out in PCT Article 33(3).

2) Concerning claims 2 to 9 (dependent claims)

claims 2-9 also comply with PCT Article 33(3) as they are dependent claims.

3) Concerning claim 10 (Independent claim)

Claim 10 of the present invention meets the criteria set out in PCT Article 33(3), because it relates to an electric wax chisel comprising component of claim 1 having inventive step.

4) Concerning claims 11 to 16 (dependent claims)

claims 11-16 also comply with PCT Article 33(3) as they are dependent claims.

5) Concerning claim 17 (Independent claim)

Claim 17 of the present invention meets the criteria set out in PCT Article 33(3), because it refers to an electric wax chisel comprising component of claim 1 having inventive step.

6) Concerning claims 18 to 20 (dependent claims)

claims 18-20 also comply with PCT Article 33(3) as they are dependent claims.